

metbrief: 2014-02-12

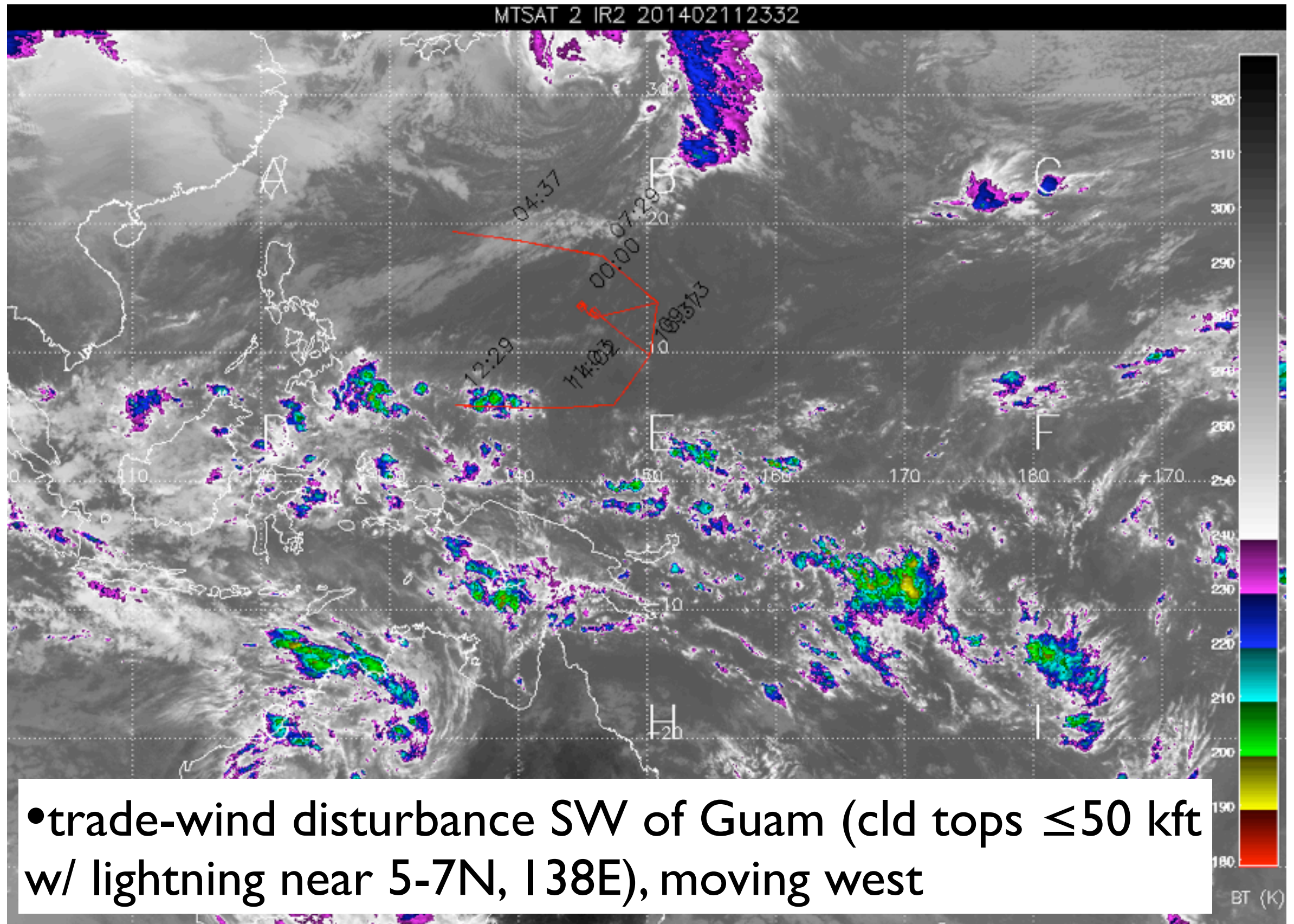
(next flight 2014-02-13 Thu)

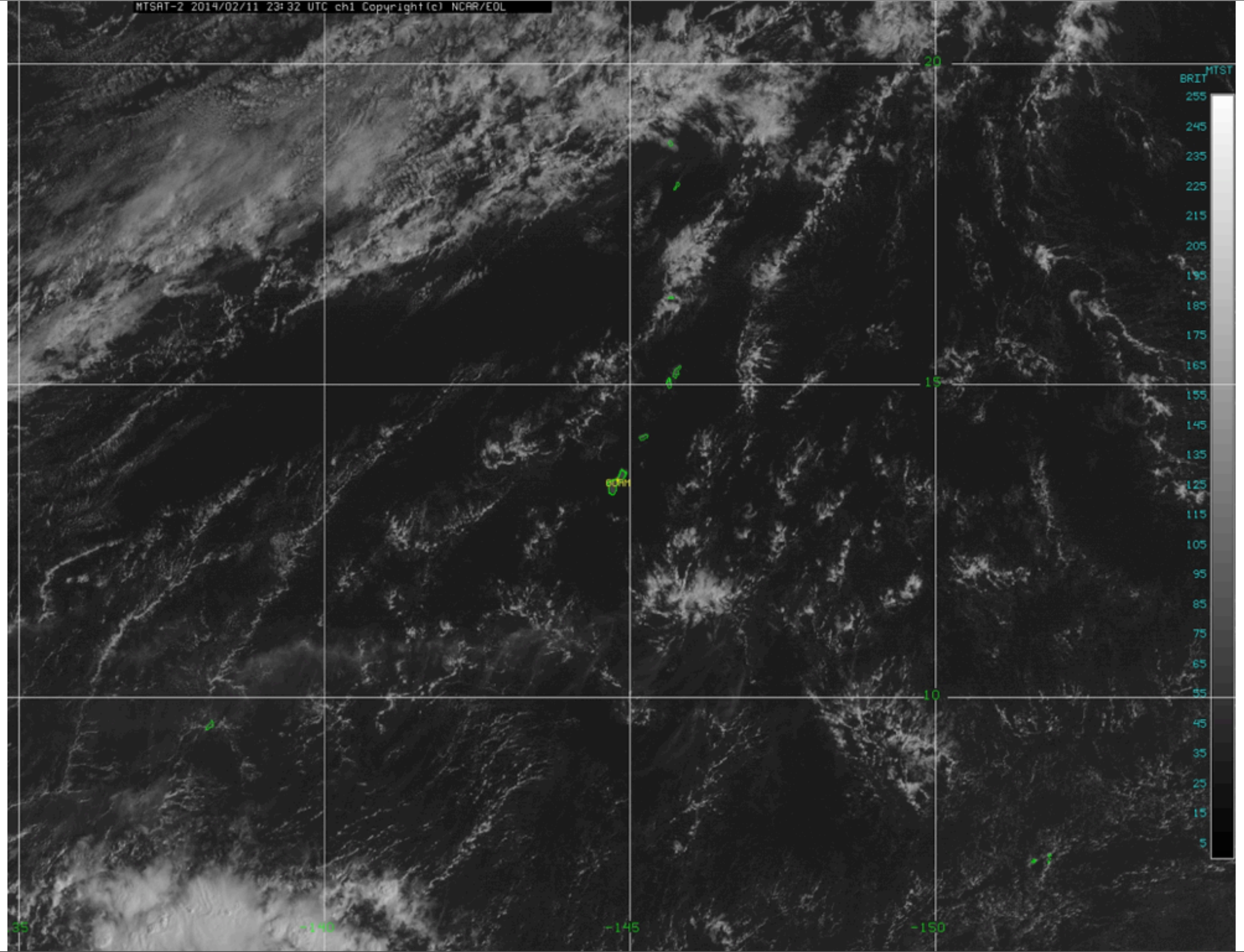
- dry air and E trade-winds prevail over Guam, but becoming more moist over the next few days; isolated showers at ~4AM takeoff on Thu (and Fri), less clouds and lower chance of precip at ~10PM landing
- trade-wind disturbance (convective precip) south of ~10N persists, moving westward
- outlook: a diffuse frontal passage over Guam Sat night through Sun; NE winds getting stronger next Mon

	wind	cld cover (base)	precip	
Thu takeoff (04AM)	5-10 knt E	scattered (2200 ft), broken (2800 ft)	isolated	
midflight (10AM, 04PM)	convective precip SW of Guam (5-8N, west of 142E), cld tops \leq 50-55 kft, weakening and moving west of 135E by 04PM (southern leg of flight track)			
landing (10PM)	10-15 knt ENE	scattered (2200 ft)	low prob	
Fri takeoff (04AM)	5-10 knt ENE	broken (2200 ft)	isolated	700 and 850mb RH \uparrow
midflight (10AM)	convective precip SW of Guam (0-8N, west of 130E), cld tops \leq 50 kft			
landing (10PM)	5-10 knt ENE	scattered (2200 ft)	low prob	

‘current’ condition:

satellite IR imagery on 2014-02-11, ~23UTC
(02-12 Wed, ~09AM)

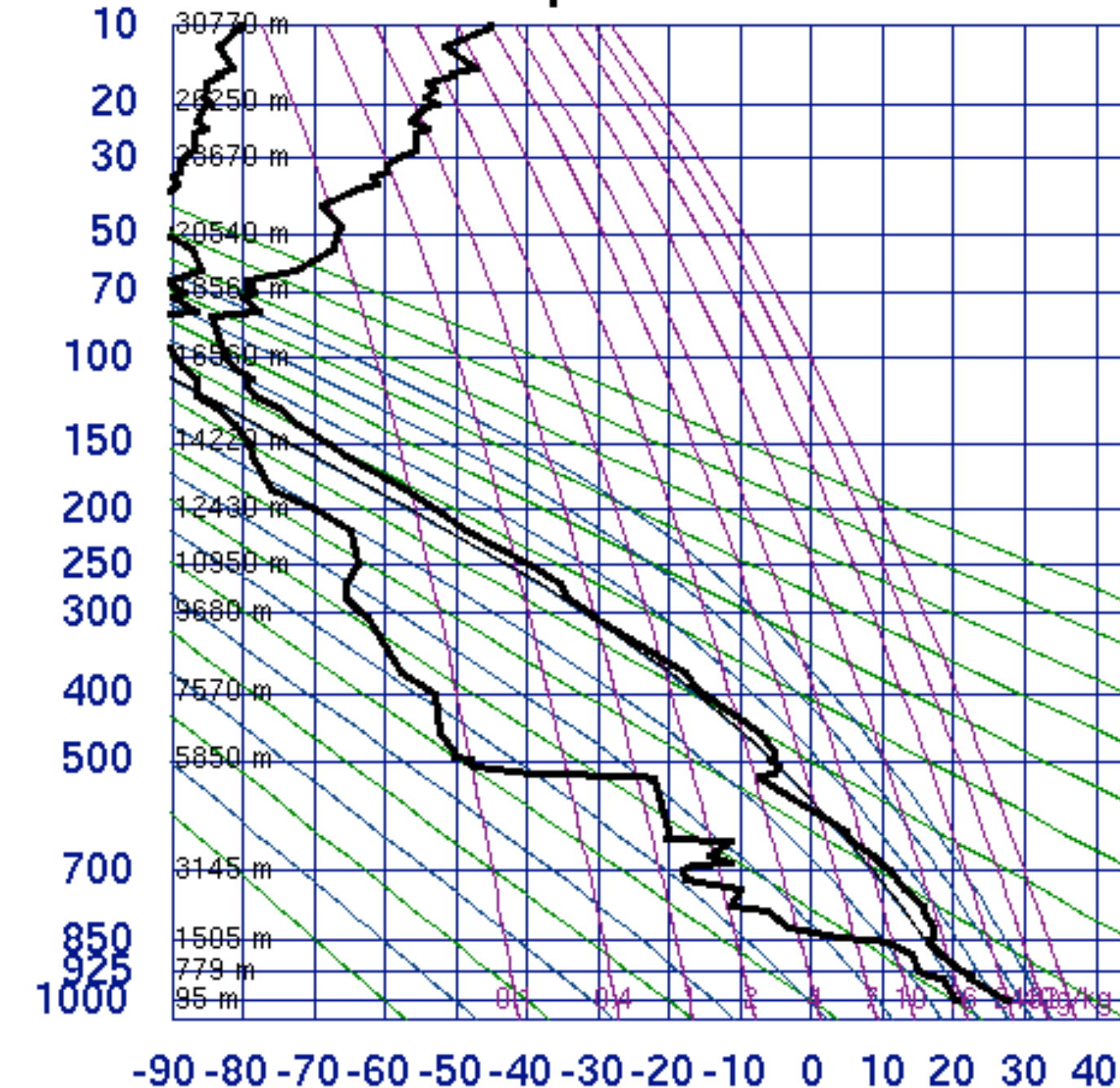




‘current’ condition:

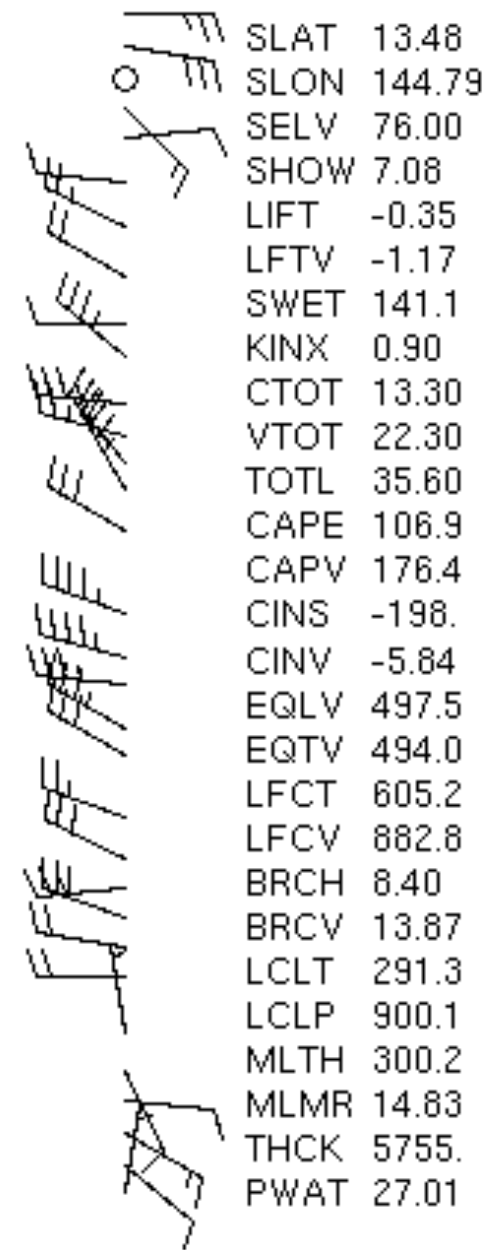
soundings on 2014-02-12, 00UTC
(02-12 Wed, 10AM)

91212 PGAC Guam Intl Arpt



00Z 12 Feb 2014

University of Wyoming



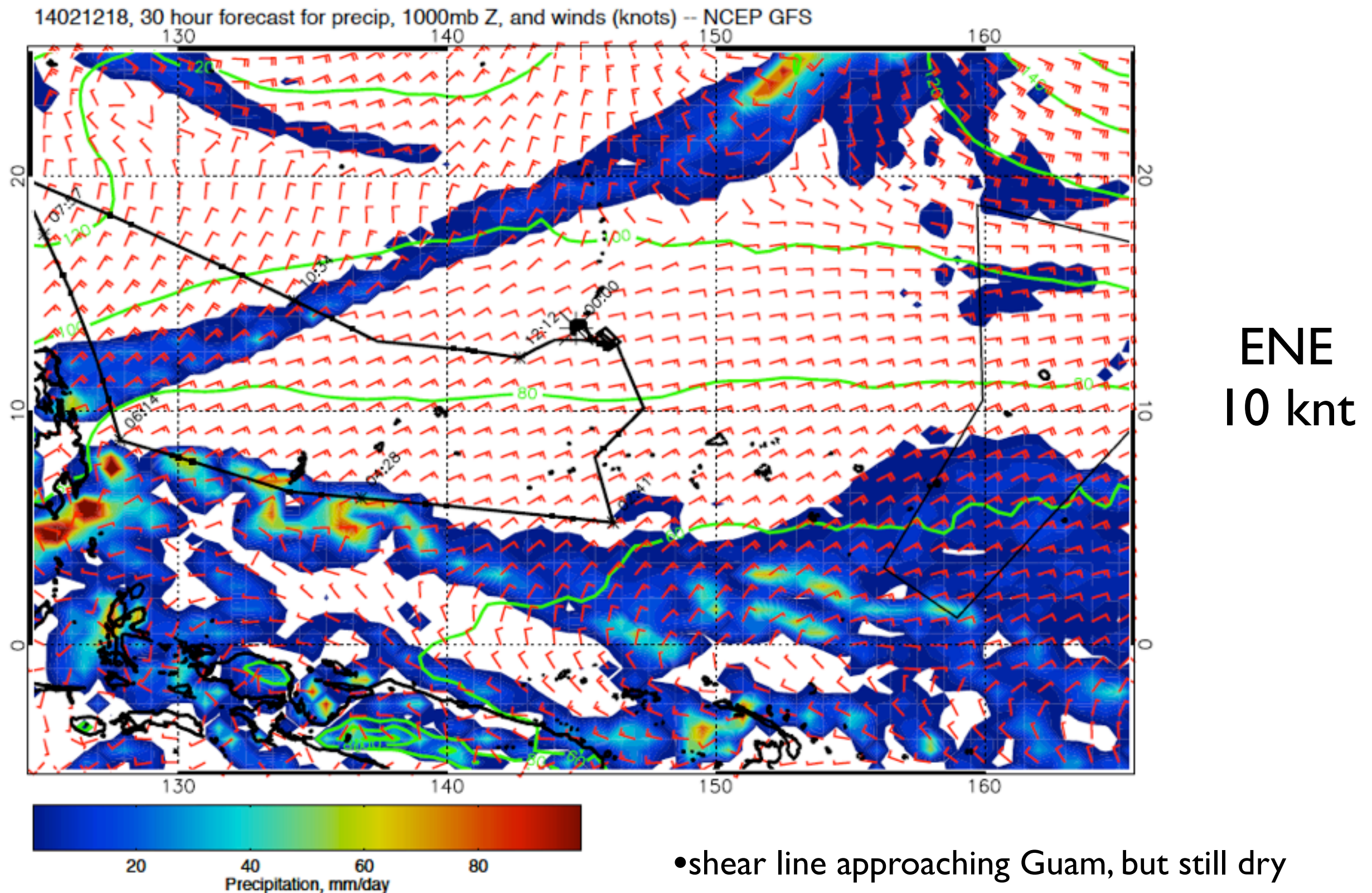
•tropopause -84.5 degC
(188.5 K) at 17.8 km
(58.3 kft)

►higher and warmer
tropopause than
yesterday, but not as
narrow

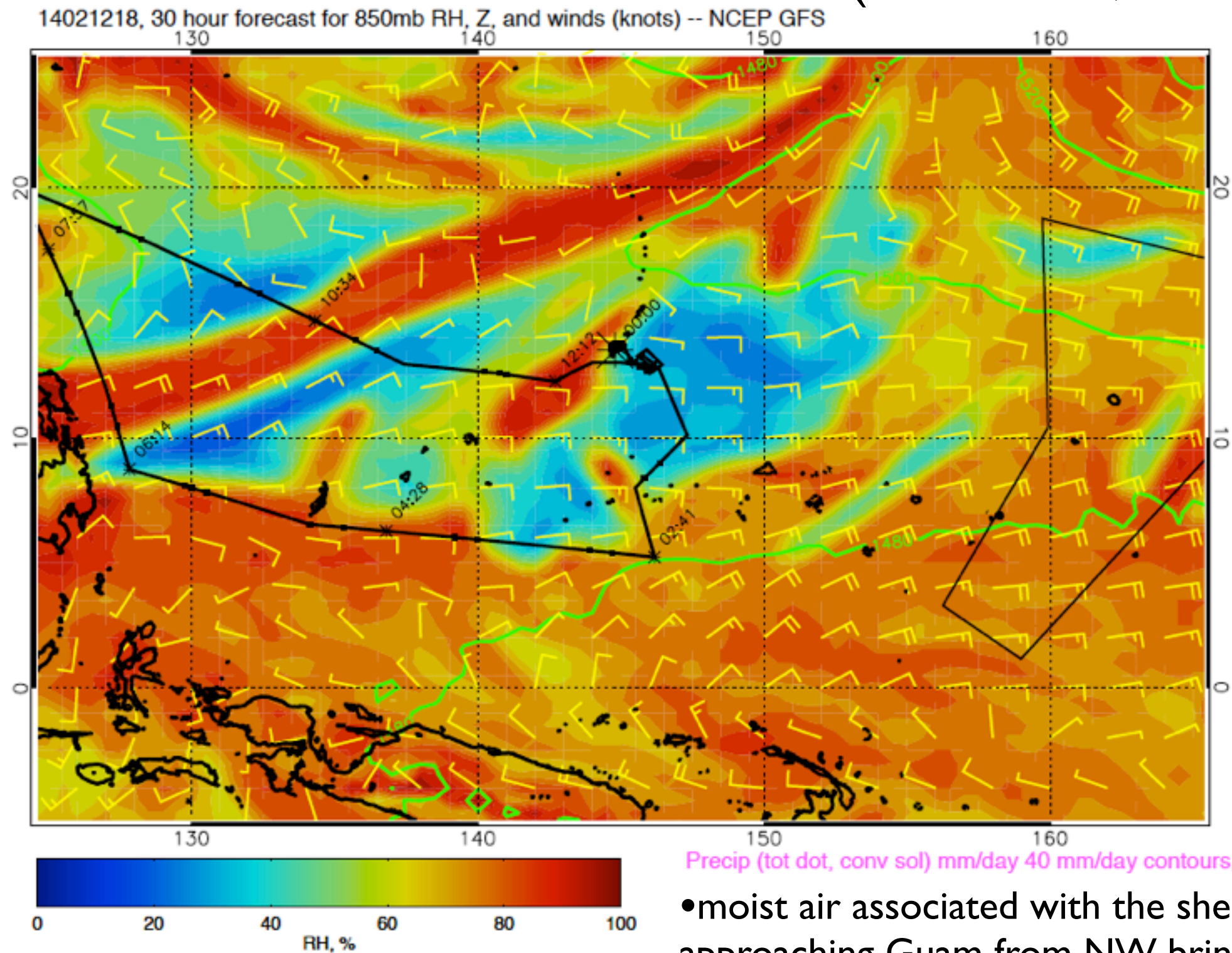
►T warms rapidly
above

‘Thu take-off’ condition (GFS):

1000mb precip & winds on 2014-02-12, 18UTC
(02-13 Thu, 04AM)



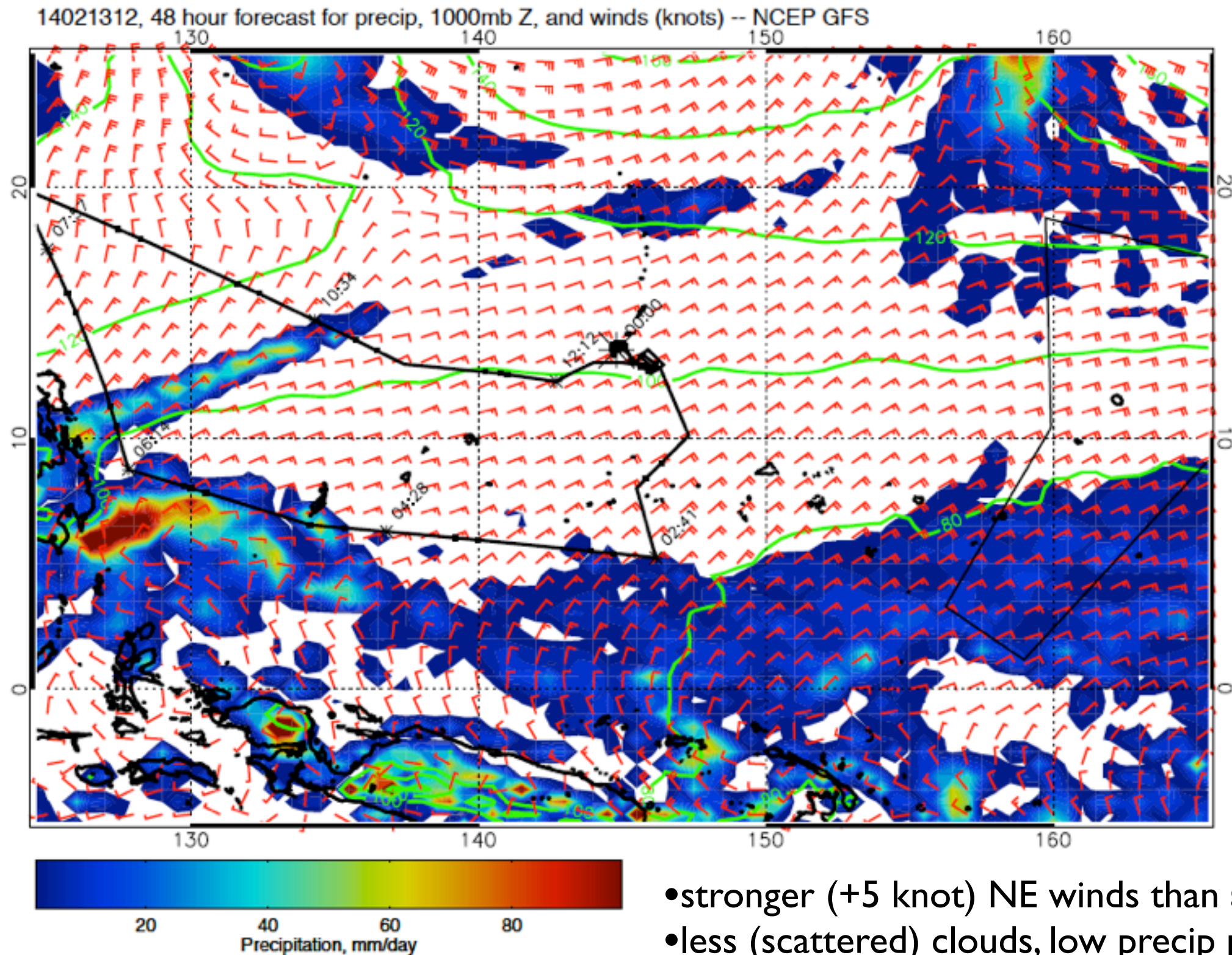
‘Thu take-off’ condition (GFS):
850mb RH & winds on 2014-02-12, 18UTC
(02-13 Thu, 04AM)



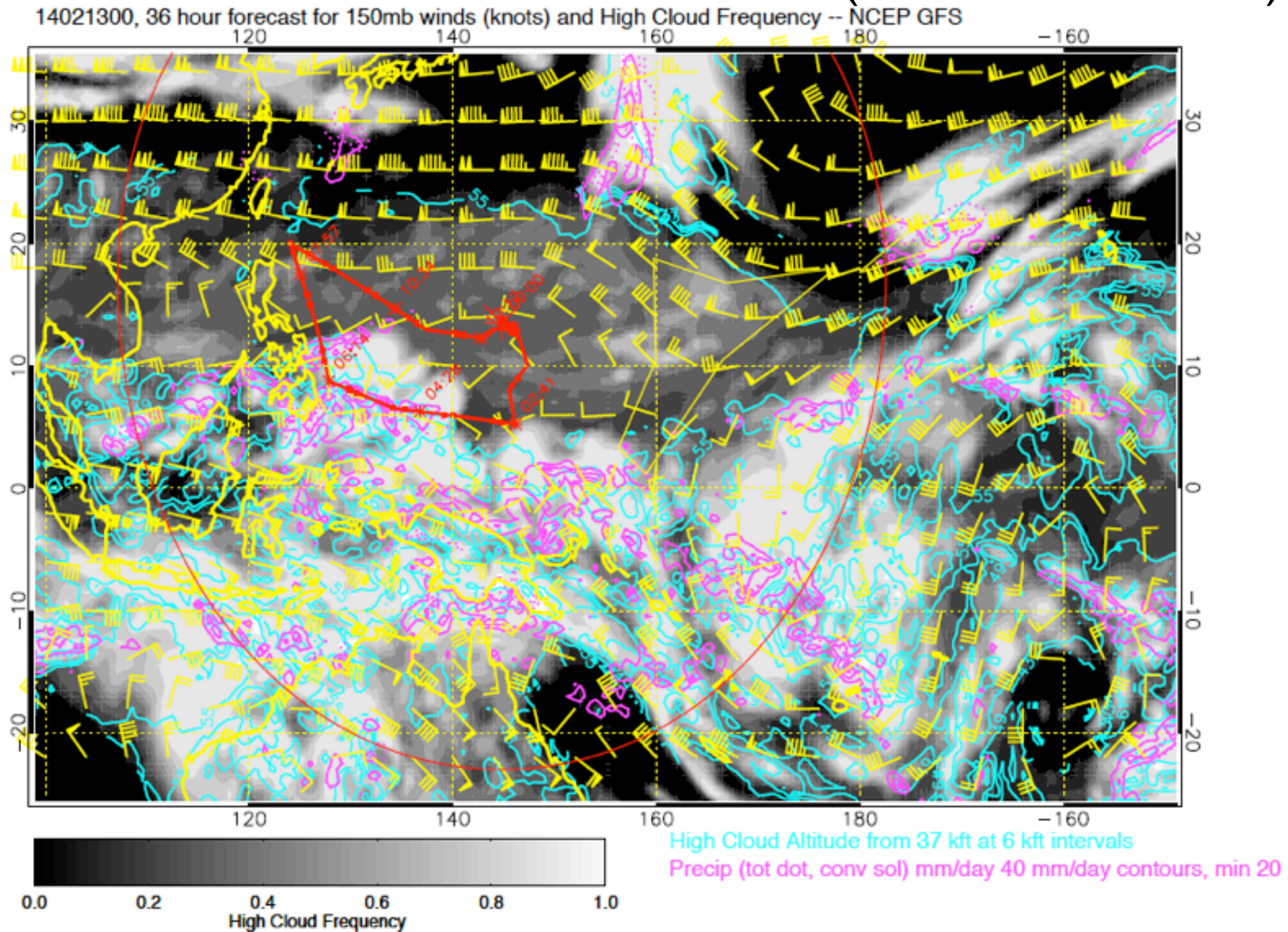
- moist air associated with the shear line approaching Guam from NW, bringing more (scattered to broken) clouds at low levels (700mb RH is still low)

‘Thu landing’ condition (GFS):

1000mb precip & winds on 2014-02-13, 12UTC
(02-13 Thu, 10PM)

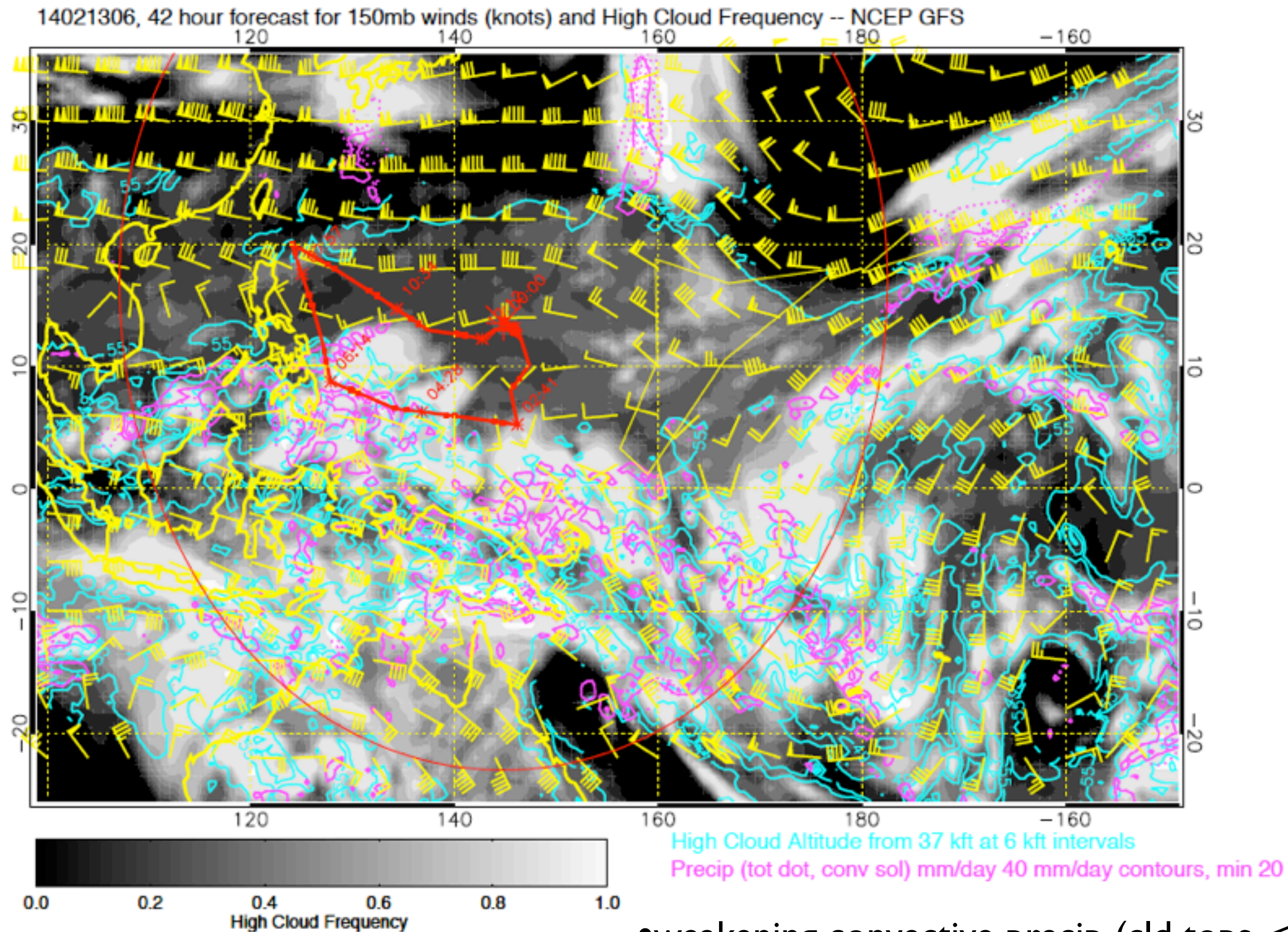


‘Thu midflight’ condition (GFS):
high clouds & 150mb winds on 2014-02-13, 00UTC
(02-13 Thu, 10AM)



- convective precip (cld tops ≤ 50 -55 kft) west of 138E along 6-8N, moving westward

‘Thu midflight’ condition (GFS):
high clouds & 150mb winds on 2014-02-13, 06UTC
(02-13 Thu, 04PM)



- weakening convective precip (cld tops ≤ 50 kft)
west of 135E -- westernmost point of flight track